



The effect of Hurricane Sandy on Islip Town Parks & Recreation

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## **Recovery & Restoration for 2013**

## The impact of destruction...

In the wake of this unprecedented event, a comprehensive review has been commissioned to analyze the full extent of the damage so the Town Board can better understand the scale of the destruction and the work that lies ahead. Town officials have identified more than \$25 million in project costs directly related to Superstorm Sandy with regards to Islip's parks, marinas, and recreational facilities.

From November through December 2012 Town officials and outside experts performed field assessments of every Town facility to determine what storm-related repairs were to be given priority. The assessment teams noted that several Town marinas and beaches, many of which were already in need of repair, sustained enough damage as to render them inoperable for the 2013 season without immediate and significant rehabilitation.

The various Town marinas in Bay Shore, including Bay Shore Marina, Ocean Avenue Dock and Maple Avenue Dock, received a wide variety of damage. These marinas serve as a lifeline for Fire Island communities, both as jump-off points for residents and workers and as distribution points for goods and commodities desperately needed on the ravaged barrier beach. An already difficult economic recovery will be worsened if repairs are not made in time for the summer season.

The Town has expressed concerns for safety at Islip's beaches and recreational facilities and has already taken steps to ensure these locations are free from debris and excess sediment in all bathing areas as a result of the record flooding. Depending on the result of the assessments, the Town will remove debris including underwater obstacles, before any official opening of the beaches.

Bringing our beaches and marinas back to operational capacity will be expensive. This work collectively represents one of the largest planning and engineering operations this Town has ever undertaken. But to let these facilities lie dormant for an extended period of time will cause irreparable harm to our local economy, the quality of services to our residents, and the reputation of our Town.

From the mainland to Fire Island, from the smallest recreation spots to the largest revenue-generating facility, this document highlights the damages sustained by Sandy to the Town of Islip recreational system and will serve as a guiding document for critical rebuilding and restoration efforts that need to be performed throughout 2013 and into the future. Damage assessment to every Town recreational amenity is not included in this highlight document.

No portion of the Town weathered the storm unscathed. Between Sandy emergency response, and subsequent snow events, the Town's response has been significantly hampered. Whether directly affected by the storms, or the domino effect pulling scarce resources, all Town residents will be impacted by this historic weather event and the necessary response efforts. In the last three years, Islip has experienced an increase in the severity and frequency of emergency events including two major hurricanes, several nor'easters, two blizzards, a tornado, and an earthquake. Mitigation efforts at all Town facilities are being made. Preventative measures that the Town can take to improve the quality and nature of our parks system to minimize future damage by hardening those infrastructures from expected natural disasters is critical.

Whenever feasible, the Town of Islip will perform restoration tasks in-house with existing labor. The trickle-down effect of this response does make an impact across parks operations. While it is more cost effective to perform these necessary repairs in-house, doing so pulls employees away from their normal scheduled work, potentially delaying the preparations for the Spring and Summer seasons.

As these tasks are performed, additional damage may be discovered. The numbers provided in this document stem from initial reviews and are subject to change. With competitively bid projects, the overall estimated costs may be higher or lower than original estimates.

In addition, officials must factor: restoration efforts require internal and external permitting and/or major coordination with Federal, State, County and town agencies; and that all land and underwater areas at Town beaches must be certified for health and safety standards. Sloped and bottom material regulation is within Suffolk County Department of Health guidelines and the Town receives no exemptions from these or other regulatory agency's requirements.

***Additional information and documentation is available upon request.***





## Islip Beach - South Bay Avenue, Islip



### **Amenities:**

*Beach, Concession, pavilion, gazebo, parking lot, playground, boardwalk.*

## Damages Incurred

- Destruction of concession and bathroom buildings
- Destruction of 2,600 sq. ft. of boardwalk and decking
- Destruction of 2,710 sq. ft. of sidewalk and concrete slabs
- Damage to entry gates, wooden guardrail along parking lot, 500 ft. of chain link fence, telephone pole, parking and informational signs.
- Damage to picnic tables, fixed bbq grills and other park amenities.
- Damage to beach, and excessive sand covering asphalt parking lot and grassed areas.
- Destruction of stairs and ramps.
- Damage to attendant's booth.
- Other damages





## Recovery & Restoration

### Estimated Repair Costs

Demo of concession/bathrooms/shower bldg.	\$15,000
New concession/bathrooms/ bldg.	\$600,000
Replacement of boardwalk and substructure	\$106,600
Concrete Slabs and Sidewalks	\$32,805
Carpentry Repairs to pavilion, attendant booth, stairs and ramps	\$16,800
Replacement guardrail and chain link fencing	\$32,200
Signage, entry gates, par amenities, poles, and general site cleanup	\$24,000

**TOTAL Est. Repairs**

**\$827,405**



## Estimated Repair Timeline and Completion Dates

<b>December 31, 2012</b>	<b>March 15, 2013</b>	<b>May 28, 2013</b>
Septic and water system Electrical evaluation Fencing	Water system repair	Buildings removal & replacement Sand renourishment Boardwalk replacement Parking lot expansion Concrete walkways removal & replacement Benches and guardrails Septic and electrical repairs Underwater evaluation and debris removal





## East Islip Marina – Bayview Avenue, East Islip



### **Amenities:**

*Concession, baseball field, tennis court, restrooms, picnic area, playground, boat slips, pump-out station.*

## Damages Incurred

- Destruction of 10,00 sq. ft. of boardwalk and decking
- Damaged to 450 sq. ft. of bulkhead and pier
- Electrical damage and/or complete destruction to 15 light poles and 29 (30 amp) power posts
- Damage to 3,200 ft. of electrical conduit and wiring servicing the marina
- Destruction to (200 amp) electrical cabinet and sanitary pump-out tank.
- Destruction of 2,100 sq. ft. of concrete sidewalk
- Damage to guardrail and wood benches
- Damage to 5,000 sq. ft. of parking lot and 20 ft. of concrete curbing
- Damage to gazebo, dock department, comfort station and shellfishery buildings





## Recovery & Restoration

### *Estimated Repair Costs*

Decking with substructure	\$410,000
Bulkhead	\$540,000
Electrical posts, conduit, wiring and cabinet	\$205,000
Water service and sanitary pump-out tank	\$83,000
Replacement of parking lot, concrete sidewalk and curbing	\$31,350
Carpentry repairs to floating dock, guardrail, benches	\$12,600
Repairs to gazebo, comfort station and other buildings	\$26,335
Shellfishery building damage and contents	\$30,304

**TOTAL Est. Repairs**

**\$1,338,589**



### *Estimated Repair Timeline and Completion Dates*

<b>December 31, 2012</b>	<b>March 15, 2013</b>	<b>May 28, 2013</b>
Parking lot evaluation Water system evaluation General maintenance of surroundings	Dredging Parking lot repair Pump-out station repair Parking lot repair Re-roof shop	Re-roof Restaurant Repair bathroom windows/skylight/floor Septic evaluation and repairs Sand renourishment Underwater debris removal





## Bayport Beach – Paulanna Avenue, Bayport



### Amenities:

*Beach, restrooms, gazebo, parking lot, playground, boardwalk.*

## Damages Incurred

- Destruction of 1,500 sq. ft. of boardwalk
- Destruction of 7,500 sq. ft. of parking lot pavement
- Destruction to 350 linear. ft. of guardrail along playground and parking lot
- Loss of 500 cubic yards of turf and sand from beach
- Destruction of 6 benches from playground and boardwalk.
- Damage of lifeguard, gazebo and bathroom buildings
- Damage to wood pier decking and railings
- Storm debris blocked drainage and channels between boat slips







## Recovery & Restoration

### *Estimated Repair Costs*

Demo of lifeguard/bathrooms/ bldg.	\$5,500
New lifeguard/bathrooms/ bldg.	\$220,000
Replacement of boardwalk and substructure	\$94,300
Replenish sand	\$36,000
Replacement of benches	\$60,000
Repaving of parking lot and Replacement guardrail	\$61,000
Repairs to Pier	\$12,000

**TOTAL Est. Repairs**

**\$488,800**

### *Estimated Repair Timeline and Completion Dates*

<b>December 31, 2012</b>	<b>March 15, 2013</b>	<b>May 28, 2013</b>
Electrical of building water system and electrical Fencing	Water system repair	Buildings repair Sand renourishment Boardwalk replacement Parking lot expansion Curbing and guardrail repair Electrical repairs Underwater evaluation and debris removal

## Bay Shore Marina – South Clinton Avenue, Bay Shore



### Amenities:

*Beach, spray park, concession, restrooms, parking lot, playground, basketball court, boardwalk.*

## Damages Incurred

- Destruction of 3,300 sq. ft. of concrete sidewalk
- Destruction of 220,000 sq. ft. of parking lot pavement
- Damage to 70 linear. ft. of bulkhead and 100 linear ft. of fencing near playground
- Collapse and blockage to drainage pipe and outfall
- Loss of 3,000 cubic yards of turf and sand from beach







## Recovery & Restoration

### *Estimated Repair Costs*

Repair/replace bulkhead and fence	\$43,600
Replenish sand	\$216,000
Repair drainage and outfall	\$35,000
Concrete Slabs and Sidewalks (3,300 sq. ft. damaged)	\$36,000
Repaving of parking lot (220,000 sq. ft. damaged)	\$330,000
Signage, entry gates, par amenities, poles, and general site cleanup	\$19,000
Electrical damage repairs	\$40,000
Misc. costs (soundings, bathroom room, etc.)	\$19,000

**TOTAL Est. Repairs**

**\$738,600**

*Estimated Repair Timeline and Completion Dates*

<b>December 31, 2012</b>	<b>March 15, 2013</b>	<b>May 28, 2013</b>
Evaluation of electric, septic and water systems Evaluation of buildings General maintenance of surroundings	Electrical repair Pump-out station repair Dredging Parking lot repair Re-roof restrooms Deck board evaluation Sidewalk/curbing replacement Replace benches Water system repairs	Septic repair Buildings repair Sand renourishment Electrical repairs Landscaping Underwater evaluation and debris removal  <i>*June 29, 2013 – Spray Park pump replacement</i>



## Sayville Beach – River Road, Sayville



**Amenities:**

*Beach, concession, restrooms, parking lot, playground.*

## Damages Incurred

- Destruction of Beach Pavilion bldg.
- Damage to 100 linear ft. to retaining wall
- Destruction of 10,000 sq. ft. of parking lot pavement
- Destruction of signage, gating, & amenities





## Recovery & Restoration

### *Estimated Repair Costs*

Complete replacement of pavilion building	\$1,200,000
Repaving of parking lot	\$33,000
Replace concrete curb and fencing	\$39,000
Signage, entry gates, park amenities, poles, and general site cleanup	\$6,800

**TOTAL Est. Repairs**

**\$1,278,800**

### *Estimated Repair Timeline and Completion Dates*

<b>December 31, 2012</b>	<b>March 15, 2013</b>	<b>May 28, 2013</b>
Evaluation of electric and water systems Evaluation of building General maintenance of surroundings	Repair guardrails Maintenance of parking lot Water system repair	Buildings repair Electric repair Fencing Underwater evaluation and debris removal



## Port O'Call Marina – Foster Avenue, Sayville



### **Amenities:**

*Beach, restrooms, parking lot, playground, tennis courts, boardwalk, boat slips.*

## Damages Incurred

- Destruction of 2,300 sq. ft. of boardwalk and decking
- Electrical damage to 10 light poles and 7 (30 amp) posts and three (20 amp) GFI receptacles
- Damage to 104 linear ft. of bulkhead
- Damage to 1,120 sq. ft. of floating dock and aluminum gangways
- Destruction of main circuit breaker cabinet, electrical conduit and wiring to marina and main building
- Damage to water lines and water service
- Damage to benches, fencing and guardrails.
- Flooding damage to floor and hot water heater of main building
- Structural damage to storage shed





## Recovery & Restoration

### *Estimated Repair Costs*

Demo and rebuilding of decking and substructure	\$94,300
Aluminum gangways	\$30,000
Replacement of Bulkhead and floating docks	\$200,800
Replacement of light and power poles, electrical cabinet, conduits, receptacles and wiring	\$135,100
Water service repairs	\$30,000
Misc. Carpentry Repairs to benches, docks	\$7,800
Demo and/or repairs to main building and shed	\$33,800

**TOTAL Est. Repairs**

**\$531,800**



*Estimated Repair Timeline and Completion Dates*

<b>December 31, 2012</b>	<b>March 15, 2013</b>
Evaluation of electric and water systems Parking lot maintenance Signage replacement General maintenance of surroundings	Floating dock repair Pier framing, pilings and decking Dock Stanchions replacement Cleats and slip numbering Plumbing for docks Water system repair Guardrail repair Fencing Dredging

## West Islip Beach – Beach Drive Avenue, West Islip



**Amenities:**

*Beach, Concession, pavilion, gazebo, parking lot, playground, boardwalk.*

## Damages Incurred

- Destruction of 100 linear ft. of concrete curbing
- Destruction of 150 linear ft. of fencing
- Damage to entry gates
- Damage 2,200 sq. ft. of parking lot
- Damage to beach pavilion roof







## Recovery & Restoration Plan

### *Estimated Repair Costs*

Re-roofing of existing beach pavilion structure	\$30,000
Asphalt pavement milling, repaving and re-striping	\$33,000
Replacement of concrete curbing	\$1,500
6 ft. high chain link fence replacement	\$24,000
Replacement of new entry gates	\$1,200
General site cleanup	\$55,600

**TOTAL Est. Repairs**

**\$145,300**

### *Estimated Repair Timeline and Completion Dates*

#### **May 28, 2013**

Fencing  
Sand renourishment  
Underwater evaluation and debris removal

## Atlantique – Shore Walk, Fire Island



### Amenities:

*Beach, boat slips, concession, restrooms with showers, playground, basketball court, handball court, picnic area with BBQs, boardwalk and pump-out station*

## Damages Incurred

- Destruction of 20,000 sq. ft. of boardwalk, decking and its substructure
- Destruction 89 light and 85 power posts
- Damage to electrical conduit, wiring, circuit breaker and panels
- Damage to 500 sq. ft. of concrete walkways
- Damage to stairways and railings
- Loss of soil and sand
- Damage to roof of pump house
- Damage to hot water heater in the restrooms and shower facility







## Recovery & Restoration Plan

### *Estimated Repair Costs*

Demo and rebuilding of decking and substructure	\$980,000
Replacement of light and power poles,	\$246,720
Electrical cabinet, conduits, receptacles and wiring	\$114,800
Replacement of concrete walkways, stairways	\$45,500
Water service repairs	\$92,000
Replenish of sand	\$100,800
Repairs, cleanup of pump house, restrooms and facility	\$27,000
Misc. building repairs	\$45,000
<b>TOTAL Est. Repairs</b>	<b>\$1,651,820</b>

*Estimated Repair Timeline and Completion Dates*

<b>December 31, 2012</b>	<b>March 15, 2013</b>	<b>May 28, 2013</b>
Evaluation of electric and water systems Evaluation of bathrooms and pump house General maintenance of surroundings	Underwater evaluation and debris removal Additional cleanup Some demo of decking	Buildings repair Electric repair (light/power poles) Sand replenishment Concrete walkways and stairways Replacement of decking infrastructure

## Byron Lake Park and Pool – Bayview Avenue, Oakdale



### Amenities:

*Two pools, water slide, playground, basketball court, restrooms, picnic area, gazebo, and concession stand.*

## Damages Incurred

- Damage 38,200 sq. ft. of parking lot
- Damage to 4,000 sq. ft. turf and grassy area



PHOTO No. 1



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## Recovery & Restoration Plan

### *Estimated Repair Costs*

Repaving of parking lot	\$57,000
Re-grade and re-turf grassy area	\$4,000
General Site Clean-up	\$5,600

**TOTAL Est. Repairs**

**\$66,600**

## Anthony Casamento Pool – Muncey Road, West Islip



### Amenities:

*Two pools, playground, baseball and softball fields, tennis, basketball and handball courts, restrooms and picnic area.*

## Damages Incurred

- Damage 30,000 sq. ft. of parking lot
- Damage to turf and grassy area
- Damage to curbs and sidewalks.



PHOTO No. 1



PHOTO No. 3

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## Recovery & Restoration Plan

### *Estimated Repair Costs*

Repaving of parking lot	\$45,000
Re-grade and re-turf grassy area	\$2,000
Replace concrete curbing	\$3,000
General Site Clean-up	\$2,800

**TOTAL Est. Repairs**

**\$52,800**



## Maple Street Dock – Maple Street, Islip



**TOTAL Est. Repairs**

**\$9,000**

### *Estimated Repair Timeline and Completion Dates*

<b>December 31, 2013</b>	<b>March 15, 2013</b>
Evaluation of electric and water systems General maintenance of surroundings	Repair electric and water systems Dredging

## Brown's River West – River Road, Sayville



**TOTAL Est. Repairs**

**\$12,000**

### *Estimated Repair Timeline and Completion Dates*

<b>December 31, 2012</b>	<b>March 15, 2013</b>
Evaluation of electric and water systems General maintenance of surroundings	Repair electric and water systems Dredging



## Ocean Avenue Dock – Ocean Avenue, Bay Shore



**TOTAL Est. Repairs**

**\$20,000**

### *Estimated Repair Timeline and Completion Dates*

<b>December 31, 2012</b>	<b>March 15, 2013</b>
Repair parking lot lights and blacktop Evaluation of electric and water systems General maintenance of surroundings	Repair electric and water systems Dredging



## Champlin Creek – Dock Road, East Islip



**TOTAL Est. Repairs**

**\$10,000**

### *Estimated Repair Timeline and Completion Dates*

<b>December 31, 2012</b>	<b>March 15, 2013</b>
Evaluation of electric and water systems General maintenance of surroundings	Repair electric and water systems Dredging

## West Avenue Dock – West Avenue, Sayville



**TOTAL Est. Repairs**

**\$145,000**

### *Estimated Repair Timeline and Completion Dates*

<b>December 31, 2012</b>	<b>March 15, 2013</b>
Evaluation of electric and water systems Evaluation of parking lot General maintenance of surroundings	Repair pier decking Repair parking lot Repair electric and water systems Dredging



## Great River Fishing Pier – Great River Road, Great River



**TOTAL Est. Repairs**

**\$85,000**

### *Estimated Repair Timeline and Completion Dates*

<b>December 31, 2012</b>	<b>March 15, 2013</b>
Evaluation of electric and water systems Evaluation of parking lot General maintenance of surroundings	Repair pier decking Repair parking lot Repair electric and water systems Dredging



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## Raymond Street Dock – Raymond Street, Islip

**TOTAL Est. Repairs**

**\$5,000**

### *Estimated Repair Timeline and Completion Dates*

<b>December 31, 2012</b>	<b>March 15, 2013</b>
Evaluation of electric and water systems General maintenance of surroundings	Repair electric and water systems Dredging

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## Homan Creek Dock – Paulanna Ave Bayport

**TOTAL Est. Repairs**

**\$305,000**

### *Estimated Repair Timeline and Completion Dates*

<b>December 31, 2012</b>	<b>March 15, 2013</b>
Evaluation of electric and water systems General maintenance of surroundings	Repair electric and water systems Dredging



## Estimated Cost Summary

FACILITY	REPAIRS ESTIMATE	MITIGATION ESTIMATE
Islip Beach	\$827,405	\$400,000
East Islip Marina	\$1,338,589	\$5,000,000
Bayport Beach	\$488,800	
Bay Shore Marina	\$738,600	
Sayville Beach	\$1,278,800	
Port O Call Marina	\$531,800	\$3,600,000
West Islip Beach	\$145,300	
Atlantique Beach Marina	\$1,651,820	\$11,300,000
Byron Lake Park and Pool	\$66,600	
Casamento Pool	\$52,800	
Maple Street Dock	\$9,000	
Brown's River West	\$12,000	
Ocean Avenue Dock	\$20,000	
Champlin Creek	\$10,000	
West Avenue Dock	\$145,000	
Great River Fishing Pier	\$85,000	
Raymond Street Dock	\$5,000	
Homan's Creek Dock	\$305,000	
<b>Subtotal</b>	<b>\$7,711,514</b>	<b>\$20,300,000</b>
<b>TOTAL</b>	<b>\$28,011,514</b>	





*Lake Ronkonkoma Park*



*Hidden Pond Park, Hauppauge*



*Fire Island*



*Atlantique, Fire Island*





*Port O Call, Sayville*



*West Avenue Dock*



*West Islip fields*



*Benjamin Beach Spray Park*



*Islip Beach*



*Atlantique Marina*